

## **APPENDIX 5: QUESTIONNAIRES**

The following questionnaires deal with subject background, certain aspects of the driving simulator, the study that the participants took part in, and the use of new technology (as described in the introduction). There is a different questionnaire for each group: one for the experimental group (free agent condition) and one for the control condition.

# Questionnaire for the Experimental Group

## Instructions

The following series of questions deals with the driving simulator, the experiment that you just took part in, and advanced automobile technologies. For most of the questions, you will be asked to provide a rating from 0 to 100. The meanings of the two endpoints of the scale are provided for each question. Your answer can be any whole number between 0 and 100; do not use fractions or decimals. A space is provided for you to write your answer in.

Example:

Question	Scale	Your Rating
How would you rate the importance of air bags in driver safety?	0 = Very unimportant 100 = Very important	_____

If you think that air bags are pretty important in driver safety, you would provide a rating of over 50; the more important you think they are, the closer your rating would be to 100. If you think that air bags are not too important, you would provide a rating of less than 50; the more *unimportant* you think they are, the closer your rating would be to 0.

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## Questions

Question	Scale	Your Rating
1. How much did you enjoy driving the simulator?	0 = Not at all 100 = A lot	_____
2. How did driving in the simulator compare to driving in your car?	0 = Very different 100 = Very similar	_____
3. How realistic was the view out of the windshield in the simulator?	0 = Very artificial 100 = Very realistic	_____
4. How realistic were the sounds in the simulator?	0 = Very artificial 100 = Very realistic	_____
5. How realistic was the vehicle motion in the simulator?	0 = Very artificial 100 = Very realistic	_____
6. While driving the simulator, how did you feel?	0 = Did not feel well 100 = Felt fine	_____

Question	Scale	Your Rating
7. If you had the same automated Speed, Steering, and Gap system on your real vehicle that you had in this experiment, would you use it?	0 = Never 100 = All the time	_____
8. If you had the same Speed, Steering, and Gap system on your real vehicle that you had in this experiment, how would it affect your safety?	0 = It would decrease significantly 100 = It would increase significantly	_____
9. If you had the same Speed, Steering, and Gap system on your real vehicle that you had in this experiment, how would it affect the stress of driving?	0 = Would greatly decrease stress 100 = Would greatly increase stress	_____
10. If you had the same Speed, Steering, and Gap system on your real vehicle that you had in this experiment, how would it affect the speed at which you drive?	0 = My speed would be much slower 100 = My speed would be much faster	_____
11. If you had the same Speed, Steering, and Gap system on your real vehicle that you had in this experiment, how would it affect the distance between your vehicle and the vehicle ahead?	0 = The distance would be much shorter 100 = The distance would be much longer	_____

Question	Scale	Your Rating
12. If you had the same Collision Warning system on your real vehicle that you had in this experiment, would you use it?	0 = Never 100 = All the time	_____
13. If you had the same Collision Warning system on your real vehicle that you had in this experiment, how would it affect your safety?	0 = It would decrease significantly 100 = It would increase significantly	_____
14. If you had the same Collision Warning system on your real vehicle that you had in this experiment, how would it affect the stress of driving?	0 = Would greatly decrease stress 100 = Would greatly increase stress	_____
15. If you had the same Collision Warning system on your real vehicle that you had in this experiment, how would it affect the speed at which you drive?	0 = My speed would be much slower 100 = My speed would be much faster	_____
16. If you had the same Collision Warning system on your real vehicle that you had in this experiment, how would it affect the distance between your vehicle and the vehicle ahead?	0 = The distance would be much shorter 100 = The distance would be much longer	_____

17. Do you have any comments on the automated systems you used in this experiment?

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18. What type of vehicle do you *usually* drive? Please check one and indicate the make and year.

	Make	Year
<input type="checkbox"/> Car	_____	_____
<input type="checkbox"/> Van	_____	_____
<input type="checkbox"/> Truck	_____	_____
<input type="checkbox"/> Motorcycle	_____	_____
<input type="checkbox"/> Other (specify) _____	_____	_____

19. Does your vehicle have cruise control?

- ☐ Yes (Please go to question 20.)
- ☐ No (Stop. You have completed the questionnaire.)

Question	Scale	Your Rating
20. How often do you use the cruise control on your vehicle?	0 = Hardly ever 100 = Almost always	_____

# Questionnaire for the Control Group

## Instructions

The following series of questions deals with the driving simulator and the experiment that you just took part in. For most of the questions, you will be asked to provide a rating from 0 to 100. The meanings of the two endpoints of the scale are provided for each question. Your answer can be any whole number between 0 and 100; do not use fractions or decimals. A space is provided for you to write your answer in.

Example:

Question	Scale	Your Rating
How would you rate the importance of air bags in driver safety?	0 = Very unimportant 100 = Very important	_____

If you think that air bags are pretty important in driver safety, you would provide a rating of over 50; the more important you think they are, the closer your rating would be to 100. If you think that air bags are not too important, you would provide a rating of less than 50; the more *unimportant* you think they are, the closer your rating would be to 0.

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## Questions

Question	Scale	Your Rating
1. How much did you enjoy driving the simulator?	0 = Not at all 100 = A lot	_____
2. How did driving in the simulator compare to driving in your car?	0 = Very different 100 = Very similar	_____
3. How realistic was the view out of the windshield in the simulator?	0 = Very artificial 100 = Very realistic	_____
4. How realistic were the sounds in the simulator?	0 = Very artificial 100 = Very realistic	_____
5. How realistic was the vehicle motion in the simulator?	0 = Very artificial 100 = Very realistic	_____
6. While driving the simulator, how did you feel?	0 = Did not feel well 100 = Felt fine	_____

7. What type of vehicle do you *usually* drive? Please check one and indicate the make and year.

	Make	Year
<input type="checkbox"/> Car	_____	_____
<input type="checkbox"/> Van	_____	_____
<input type="checkbox"/> Truck	_____	_____
<input type="checkbox"/> Motorcycle	_____	_____
<input type="checkbox"/> Other (specify) _____	_____	_____

8. Does your vehicle have cruise control?

- ☐ Yes (Please go to question 9.)
- ☐ No (Stop. You have completed the questionnaire.)

Question	Scale	Your Rating
9. How often do you use the cruise control on your vehicle?	0 = Hardly ever 100 = Almost always	_____